

ARTHROSCOPES AND HAND INSTRUMENTS

ARTHROSCOPES Φ 2.7



	Telescope 0°	$\Phi 2.7 \times 162$	T0170J
	Telescope 30°	$\Phi 2.7 \times 162$	T0173J
	Telescope 70°	$\Phi 2.7 \times 163$	T0177J

ARTHROSCOPES Φ 4



	Telescope 0°	$\Phi 4 \times 162$	T3170J
	Telescope 0° autoclavable	$\Phi 4 \times 162$	TH3170
	Telescope 30°	$\Phi 4 \times 162$	T3173J
	Telescope 30° autoclavable	$\Phi 4 \times 162$	TH3173
	Telescope 70°	$\Phi 4 \times 163$	T3177J

HAND INSTRUMENTS



			Knife Handle		G7000
	Flat Knife	G7010		Rosette Knife	G7060
	Sickle-knife	G7020		Lateral Release Knife	G7070
	Hook Knife	G7030		Curette	G7080
	Hook Retractor	G7040		Banana Knife	G7090
	Retrograde Knife	G7050		Flat Rasp	G7091

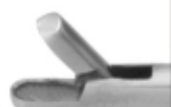
ARTHROSCOPE INSTRUMENTS

	Sheath, one stopcock	Φ4	G4010
	Sheath, one stopcock	Φ2.7	G4020
	Sheath 30°, two stopcocks	Φ2.7	G4030
	Sheath 30°, two stopcocks	Φ4	G4040
	Sheath 0°, two stopcocks	Φ2.7	G4268
	Sheath 0°, two stopcocks	Φ4	G4266
	Trocar blunt	Φ4	G4050
	Trocar blunt	Φ2.7	G4150
	Trocar sharp	Φ4	G4060
	Trocar sharp	Φ2.7	G4160
	Trocar Sleeve	Φ4	G4070
	Trocar blunt	Φ4	G4080
	Trocar sharp	Φ4	G4090
	Inflow Sleeve	Φ4	G4100
	Sharp Cannula	Φ4	G4110
	Obturator	Φ4	G4111

ARTHROSCOPE INSTRUMENTS

ARTHROSCOPE FORCEPS



	Basket Cutting Forceps straight	2.7 mm	G1010
	Basket Cutting Forceps left	2.7 mm	G1011
	Basket Cutting Forceps right	2.7 mm	G1012
	Basket Cutting Forceps straight	1.5 mm	G1020
	Basket Cutting Forceps left	1.5 mm	G1021
	Basket Cutting Forceps right	1.5 mm	G1022
	Biopsy Forceps straight	3.2 mm	G1500
	Biopsy Forceps with 2 pins	3.2 mm	G1520

	Basket Cutting Forceps straight	3.2 mm	G1030
	Basket Cutting Forceps left	3.2 mm	G1031
	Basket Cutting Forceps right	3.2 mm	G1032
	Basket Cutting Forceps curved, upward	3.2 mm	G1033
	Hook Scissors straight	3.2 mm	G1300
	Hook Scissors left	3.2 mm	G1301
	Hook Scissors right	3.2 mm	G1302

ARTHROSCOPE INSTRUMENTS

FORCEPS



	Forceps large spoon type, 3.8mm	G1105
	Basket Cutting Forceps jaws angled 90° left, 4.8mm	G1100
	Basket Cutting Forceps jaws angled 90° right, 4.8mm	G1110

	Forceps downward, 2.6mm	G1200
	Basket Cutting Forceps 45° upward, 4.8mm	G1210

SUCTION FORCEPS



	Suction Forceps left, 3.2mm	G1055
	Suction Forceps straight, 3.2mm	G1057

	Suction Forceps upward, 3.2mm	G1056
	Suction Forceps right, 3.2mm	G1058

GRASPING FORCEPS WITH RATCHET



	Meniscus Grasping Forceps , 3.4mm	G1400
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	Grasping Forceps for foreign bodies, 3.4mm	G1410
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SHAVER

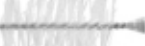
	☐ Features: - Speed controlled by foot switch ☐ Technical Data: - Max. speed: 5600 r/min, adjustable - Power: 50 Watt - Power supply: AC 100 V - 240 V 50/60 Hz ☐ Size: 400 mm × 112 mm × 300 mm (W × H × D) ☐ Weight: 8 kg
SHAVER YSB - I	G3101EA

	☐ Features: - Waterproof - Speed adjustment
Foot Switch	P7050-1

	☐ Features - Brushless motor - Waterproof - Quick coupler ☐ Technical Data: - Power of motor: 40 Watt
Hand Piece straight	G3002
Hand Piece autoclavable	G3002-2

SHAVER BLADES



	Full Radius Resector	Φ3 × 76	G3232		Round Burr	Φ4 × 120	G3435
		Φ4 × 120	G3432			Φ5.5 × 120	G3635
		Φ5.5 × 120	G3632				
	Aggressive Cutter	Φ3 × 76	G3233		Finish Barrel Burr	Φ4 × 120	G3438
		Φ4 × 120	G3433			Φ5.5 × 120	G3638
		Φ5.5 × 120	G3633				
	Aggressive Full Radius Resector	Φ3 × 76	G3234		Clean Brush	Φ2 × 460	P1300
		Φ4 × 120	G3434				
		Φ5.5 × 120	G3634				

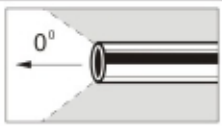
FULL RADIUS AGGRESSIVE RESECTOR



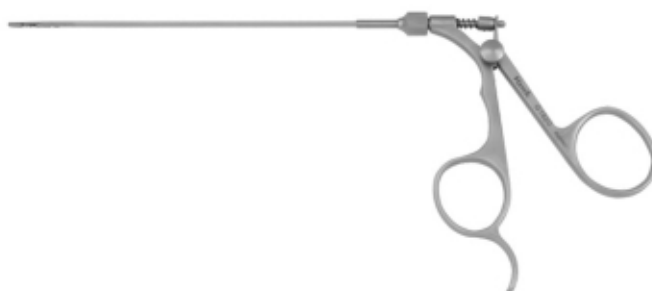
Full Radius Aggressive Resector curved, inward	Φ4 × 110	G3437	Full Radius Aggressive Resector curved, outward	Φ4 × 110	G3439
For Irrigation Pump see Page No. 41					

MAXILLARY ENDOSCOPY

TELESCOPES

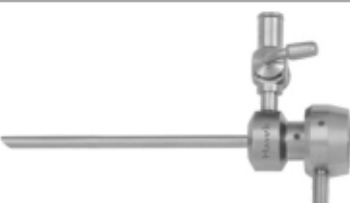
		Telescope 0°	Φ2.4 × 73	TT080
		Telescope 30°	Φ2.4 × 73	TT083

HAND INSTRUMENTS



		
Biopsy Forceps	Grasping Forceps	Scissors
Φ2 × 120	Φ2 × 120	Φ2 × 120
G1610	G1620	G1630

SHEATHES AND TROCARS

	Sheath 0° tip	Φ2.9 × 58	G4210
	Sheath 30° tip	Φ2.9 × 58	G4213
	Trocar blunt	Φ2.4	G4250
	Trocar sharp	Φ2.4	G4260

VERTEBRIS INSTRUMENTS

		
Telescope 30°	Φ4 × 100	L3103
		
Outer Sheath	Φ17	G5580
		
Dilator	Φ1.7, Φ5.3, Φ9.4, Φ13, Φ14.5, Φ17	G5620
		
Dilator	Φ1.1, Φ5.3, Φ6.4, Φ7.3, Φ8	G2602

CURETTES

		
	Curette straight	G5601
	Curette curved	G5602
	Curette small 90°	G5603
	Curette large 90°	G5604

VERTEBRIS INSTRUMENTS

FORCEPS MEDULLA TYPE



	Forceps MEDULLA type, straight	3.2 mm	G1321
		4.2 mm	G1322

	Forceps MEDULLA type, 30° upward	3.2 mm	G1325
		4.2 mm	G1326

PUNCH FORCEPS



	Punch Forceps straight	2.8 mm	G1311
		3.8 mm	G1312

	Punch Forceps oblique	2.8 mm	G1315
		3.8 mm	G1316

VERTEBRIS INSTRUMENTS

VERTEBRIS HAND INSTRUMENTS



				
Curette large	Curette small	Trocar	Knife	Ball Probe
G5605	G5606	G5610	G5614	G5625
				
Suction Tube hook tip		G5616		
				
Nerve Hook Retractor		G5609		
				
Probe		G5200		
				
Probe		G5612		
				
Drill	Φ14		G5630	

CAMERAS



- ☐ Features:
 - Waterproof CCD camera head
 - Two button control
 - white balance
 - magnification
- ☐ Functions:
 - Magnification
 - CCD brightness control, manual
 - White balance, manual
- ☐ Technical Data:
 - Image sensor: **1/3" CCD**
 - Resolution: **560 TV lines**
 - Min. sensitivity: 0.8 lx, F1.2
 - Power supply: AC 100 V - 240 V 50/60 Hz
 - System: PAL or NTSC
 - Video output: S - Video (Y/C), Video (BNC)
 - Camera cable: 3 m
- ☐ Size: 400 mm × 112 mm × 300 mm (W × H × D)
- ☐ Weight: 5 kg

CCD Camera HK - 162 S

NTSC

P4310ENA

CCD Camera HK - 162 S

PAL

P4310EPA



- ☐ Features:
 - Waterproof CCD camera head
- ☐ Functions:
 - Red and blue adjustment
 - CCD brightness control, manual
 - White balance, manual
- ☐ Technical Data:
 - Image sensor: **1/2" CCD**
 - Resolution: **460 TV lines**
 - Min. sensitivity: 3 lx, F1.4
 - Video output: Video (BNC), S - Video (Y/C)
 - Power supply: AC 100 V - 240 V 50/60 Hz
 - System: PAL or NTSC
 - Camera cable: 3 m
- ☐ Size: 400 mm × 112 mm × 300 mm (W × H × D)
- ☐ Weight: 5 kg

CCD Camera HK - 162 H

NTSC

P4302EN

CCD Camera HK - 162 H

PAL

P4302EP



- ☐ Features:
 - Waterproof CCD camera head
- ☐ Technical Data:
 - Image sensor: **1/3" 3 CCD**
 - Resolution: **800 TV lines**
 - Min. sensitivity: 5 lx, F 2.2
 - Video output: AV, RGB, S - video
 - Power supply: AC 100 V - 240 V 50/60 Hz
 - System: PAL
 - Camera cable: 3 m
- ☐ Size: 400 mm × 112 mm × 300 mm (W × H × D)
- ☐ Weight: 5 kg

3 CCD Camera HK - 162

PAL

P4303EPA

CAMERAS



- ☐ Features:
 - Waterproof camera head
- ☐ Functions:
 - White balance, manual
- ☐ Technical Data:
 - Image sensor: 1/3" CMOS
 - Resolution: 1080 TV lines
 - Min. sensitivity: 40 Lux, F 1.2
 - Video output: HD - SDI, DVI - D
 - Power supply: AC 100 V - 240 V 50/60 Hz
 - System: PAL
 - Camera cable: 3 m
- ☐ Size: 400 mm × 112 mm × 300 mm (W × H × D)
- ☐ Weight: 5 kg

HD Camera HK - 162H

PAL

P4323EP

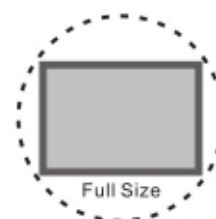
CAMERA ADAPTORS FOR RIGID TELESCOPES C - MOUNT



Adaptor 13	f = 13 mm	P7204
Adaptor 18	f = 18 mm	P7205
Adaptor 23	f = 23 mm	P7206
Adaptor 25	f = 25 mm	P7207
Adaptor 27	f = 27 mm	P7208
Adaptor 32	f = 32 mm	P7209
Adaptor 18	f = 18 mm	P7100
Adaptor 23	f = 23 mm	P7120
Adaptor 25	f = 25 mm	P7121
Adaptor 27	f = 27 mm	P7123



Circle Size



Full Size

	1/2 CCD	1/3 CCD	1/3 CMOS
f = 13 mm	-----	-----	for ϕ 6.4 Hawk Hysteroscopes for all ϕ 2.7 and ϕ 4 Hawk telescopes (circle size)
f = 18 mm	-----	for all ϕ 4 Hawk telescopes and ϕ 6.4 Hawk hysteroscopes (circle size)	-----
f = 23 mm	-----	for all ϕ 2.7 and ϕ 3 Hawk telescopes (circle size)	for all ϕ 10 Hawk laparoscopes (full size)
f = 25 mm	for all ϕ 4 Hawk telescopes and ϕ 6.4 Hawk hysteroscopes (circle size)	for all ϕ 10 Hawk laparoscopes (full size)	for all ϕ 5 and ϕ 10 Hawk laparocopes (full size)
f = 27 mm	for all ϕ 2.7 and ϕ 3 Hawk telescopes (circle size)	for uretero reoscopes (circle size), for all ϕ 5 and ϕ 10 Hawk laparocopes, for all Hawk laryngoscopes (full size)	for all ϕ 4 Hawk telescopes (full size)
f = 32 mm	for uretero reoscopes (circle size), for all ϕ 5 and ϕ 10 Hawk laparocopes, for all Hawk laryngoscopes (full size)	-----	-----

LIGHT SOURCES



- ☐ Features:
 - Stabilized voltage supply
 - 2 light outlets
- ☐ Functions:
 - Manual light intensity adjustment with indicator
- ☐ Technical Data:
 - Lamp type: Halogen 250 Watt, 24 V
 - Color temperature: 3600 K
 - Life time of lamp: 50 h (on continuous use)
 - Power supply: AC 100 V - 120 V 50/60 Hz
or AC 200 V - 240 V 50/60 Hz
- ☐ Size: 400 mm × 112 mm × 300 mm (W × H × D)
- ☐ Weight: 7 kg

Light Source Halogen 250W LWX - 300

P2201EA



- ☐ Features:
 - Stabilized voltage supply
 - Digital lamp timer display
- ☐ Functions:
 - Manual light intensity adjustment with indicator
- ☐ Technical Data:
 - Lamp type: Xenon 350 Watt
 - Color temperature: 5600 K
 - Life time of lamp: 500 h (on continuous use)
 - Power supply: AC 100 V - 120 V 50/60 Hz
or AC 200 V - 240 V 50/60 Hz
- ☐ Size: 400 mm × 172 mm × 360 mm (W × H × D)
- ☐ Weight: 9 kg

Light Source Xenon 350 W HW - 300A

P2311E



- ☐ Features:
 - Stabilized voltage supply
- ☐ Functions:
 - Manual light intensity adjustment
- ☐ Technical Data:
 - Lamp type: LED 80 W
 - Color temperature: 5000 K - 6500 K
 - Life time of lamp: 20.000 h
 - Power supply: AC 100 V - 240 V 50/60 Hz
- ☐ Size: 400 mm × 112 mm × 300 mm (W × H × D)
- ☐ Weight: 7 kg

LIGHT SOURCE LED - 200

P2315E

LIGHT GUIDE CABLES



Light Guide Cable
with spheric tip

$\Phi 4 \times 1800$ **P1801A**

$\Phi 4 \times 2500$ **P2501A**

$\Phi 5 \times 2000$ **P1851A**

$\Phi 5 \times 2500$ **P2551A**

Light Guide Cable
with spheric tip, autoclavable

$\Phi 4 \times 1800$ **PH1801A**

$\Phi 4 \times 2500$ **PH2501A**

$\Phi 5 \times 2000$ **PH1851A**

$\Phi 5 \times 2500$ **PH2551A**



HAWK & WOLF Adaptor
for light source

P1920



ACMI & OLYMPUS Adaptor
for light source

P1940



HAWK & WOLF Adaptor
for telescope

P1950

MONITORS

	☐ Technical Data: - 17 " LCD monitor - Format: 4 : 3 - Resolution: 1280 × 1024 - Brightness: 450 cd/m² - Contrast ratio: 1000 : 1 - Visual angle: 178° (H) / 178° (V) - Video input: AV, VGA, RGB, HDMI - Video output: AV - Power supply: AC 100 V ~ 240 V 50/60 Hz ☐ Size: 374 mm × 332 mm × 56 mm (W × H × D) ☐ Weight: 7 kg ☐ Accessories: AC Power cord
Monitor 17" LCD - 1701	P3211

	☐ Technical Data: - 21 " LCD monitor - Format: 4 : 3 - Resolution: 1600 × 1024 - Brightness: 450 cd/m² - Contrast ratio: 1000 : 1 - Visual angle: 178° (H) / 178° (V) - Video input: AV, VGA, RGB, HDMI - Power supply: AC 100 V ~ 240 V 50/60 Hz ☐ Size: 441 mm × 368 mm × 63 mm (W × H × D) ☐ Weight: 9 kg ☐ Accessories: AC Power cord
Monitor 21" LCD - 2101	P3214

	☐ Technical Data: - 24 " LCD monitor - Format: 4 : 3 - Resolution: 1920 × 1200 - Brightness: 600 cd/m² - Contrast ratio: 3000 : 1 - Visual angle: 178° (H) / 178° (V) - Video input: AV, VGA, DVI, SDI - Power supply: AC 100 V ~ 240 V 50/60 Hz ☐ Size: 572 mm × 417 mm × 78 mm (W × H × D) ☐ Weight: 12 kg ☐ Accessories: AC Power cord
HD - Monitor 24" LCD - 2402H	P3212H

HEAD LIGHTS / HAND LIGHT SOURCE

	☐ Features: - Illuminated area adjustable - With light guide cable $\phi 4 \times 2500$ mm
Optical Fiber Headlight	P9931
	☐ Features: - Illuminated area adjustable - With batteries, 4 h (on continuous use)
Head Light	P9941
 Battery and charger included.	☐ Features: - With rechargeable battery, 4 h (on continuous use) - Battery charger ☐ Technical Data: - Power: 3 Watt - Battery type: 3.7 V 2200 mAh - Battery charge: AC 100 V - 240 V 50 / 60 Hz
LED Hand Light Source Set	P9421
	☐ Technical Data: - Battery type: 3.7 V 2200 mAh
Battery	P9422
	☐ Technical Data: - Battery charge: AC 100 V - 240 V 50 / 60Hz
Charger	P9424-1

TROLLEYS



- ☐ Technical Data:
 - 5 shelves 500 mm × 420 mm (W × D)
 - Load capacity: 30 kg / shelf
- ☐ Size: 730 mm × 1380 mm × 760 mm (W × H × D)
- ☐ Weight: 50 kg

Compact Trolley

P1200-1

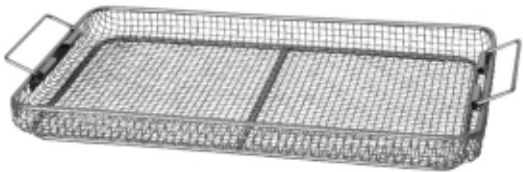
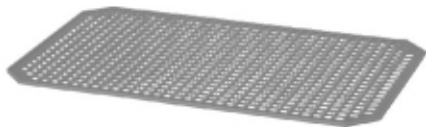
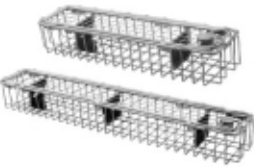


- ☐ Technical Data:
 - 4 shelves
 - 1 shelf 400 mm × 430 mm (W × D) for monitor
 - Load capacity: 20 kg / shelf
- ☐ Size: 570 mm × 1630 mm × 630 mm (W × H × D)
- ☐ Weight: 45 kg

Compact Trolley

P1201-1

INSTRUMENT TRAYS

 ☐ Usage: - Universal use ☐ Features: - Autoclavable ☐ Technical Data: - Aluminum / silver - stackable - Cover: blue	Instrument Tray without insert	242 × 242 × 45	P9661A
		242 × 242 × 70	P9661B
		242 × 242 × 120	P9661C
		386 × 242 × 45	P9662A
		386 × 242 × 70	P9662B
		386 × 242 × 120	P9662C
		514 × 242 × 70	P9663A
		514 × 242 × 120	P9663B
		514 × 242 × 175	P9663C
 ☐ Usage: - Universal use ☐ Technical Data: - Stainless steel Mat included.	Instrument Tray Insert	226 × 226 × 25	P9641A
		226 × 226 × 52	P9641B
		226 × 226 × 102	P9641C
		370 × 230 × 25	P9642A
		370 × 230 × 52	P9642B
		370 × 230 × 102	P9642C
		498 × 230 × 25	P9643A
		498 × 232 × 52	P9643B
		498 × 230 × 102	P9643C
 ☐ Technical Data: - Silicon / blue	Spare Mat	222 × 225	P9610
	Spare Mat	365 × 225	P9611
	Spare Mat	495 × 222	P9612
 ☐ Usage: - For telescope ☐ Technical Data: - Stainless steel	Instrument Tray for telescopes	298 × 80 × 52	P9630
		440 × 80 × 52	P9631
 ☐ Usage: - For Telescope ☐ Technical Data: - Aluminum / silver	Instrument Tray for telescopes	280 × 78 × 50	P9632
		440 × 78 × 50	P9633